

APPENDIX 1

Material Plant Safety --- Checklist Helper 1/89

Plants producing only for the contract (jobsite plants) are to be fully checked for compliance with both the United States Department of Labor, Code of Federal Regulations, Parts 1900-1910, and Cal-OSHA -Title 8, Calif. Administrative Code. Plants serving customers other than Caltrans (commercial plants) shall be inspected only in areas frequented by Caltrans Inspectors. Std. Specifications = []

A. Asphalt Cement Sample Area -

- 1) Sample Height - (39-3.01C) - Readily accessible and in an area free of dangerous obstructions, less than waist high.
- 2) Plumbing Size - [39-3.0C] - 1/2" or 3/4" valve and nipple.
- 3) Insulation/Shielding - 8CAC sec 3308 - Hot pipes guarded against contact when within 7 feet vertically above working level, or within 15 inches horizontally from stairways, ramps, or ladders.
- 4) Housekeeping - 8CAC sec 3272, 3273, 5551 - Clear aisles and walkways 24 inches wide and 6 feet 8 inches high, protected against slipping and free of oil, grease or water and dangerous obstructions and debris. Ditches, pits, excavations and surfaces in poor repair shall be guarded. Leaks shall be controlled and spills cleaned up promptly.
- 5) Fire Protection - 8CAC sec 6151 (d)(4) - Fire extinguisher for Class B fires shall be readily accessible within 50 feet.
- 6) Underground Tank Access - 8CAC sec 3480(c)(4) - The access shall be provided with a grate, 2 inch maximum opening, or covered.
- 7) Access Stairs - 8CAC sec 3234 - Minimum of 22 inches wide, 9.5" maximum rise, and 8" minimum run. Railings on open sides.

B. Aggregate/Cement Sample Area -

- 1) Access Stairs - 8CAC sec 3234 - Minimum of 22 inches wide, 9.5" maximum rise, and 8" minimum run. Railings on open side(s).
- 2) Guardrails - 8CAC sec 3210 - On all working levels 30 inches above the level below.
- 3) Floor Holes - 8CAC sec 3212, 1632 - Shall be completely covered.
- 4) Housekeeping - 8CAC sec 3272, 3273, 5551 - See A-4 above
- 5) Sample Size - [39-3.04A, 39.3.038(2), 90-2.02) and the Construction Manual - Safe and suitable. Manually handled aggregate, 60 to 80 pound maximum. size that represents material being used. Larger aggregate samples to be handled by contractor furnished equipment.
- 6) Conveyor Lockout - 8CAC sec 4001, 3314 - Power source de-energized to prevent inadvertent movement.
- 7) Dust - (9-2.02) - Dust shall be controlled by the contractor. The plant inspector will have to wear a fitted dust mask if excessive dust can't be controlled in the sample area.
- 3) Sample Support Rails - A safe and suitable sample is impossible to obtain without adequate sample tray support rails when sampling batch. plants at the weigh hopper.
- 9) Conveyor Startup Warning - 8CAC 3999(h) - Shall not start conveyor until all employers are clear or have been warned.

C. Aggregate Belts/Drives -

- 1) Drive Belt Guards - 8CAC 4070, 4075 - Required when within 7 feet of working level.
- 2) Conveyor Guards - 8CAC 3999(b) - Completely guarded on both sides of head and tail pulleys.
- 3) Under Conveyor Clearance - 8CAC 3999(c) - Must be covered where clearance is less than 6 foot 6 inches at areas where employees pass under the conveyor.
- 4) Guarding - 8CAC 3999(a) - Screw conveyors must be completely covered; chains, sprockets, v-belts, revolving parts must be shielded.

D. Control Room -

- 1) Stairs, Landings, Guardrail - 8CAC 3210(a), 3231, 3235 - Hand rail on open side(s), unless 3 or less risers, 30 to 34" high which will support 200 pounds. Stairs with 36 inch minimum width, rise no less than 4" or greater than 7.5". run no less than 10", slip resistant treads, maintained clear and in good repair.
- 2) Fire Protection - 8CAC sec 6151 (d)(4) - Fire extinguisher for Class B fires shall be readily accessible within 50 feet.
- 3) Emergency Exit - 8CAC 3219, 3235 - Must be free of obstacles, 3 foot minimum width, if furnished with a landing it must be no more than 1" lower than the threshold, if no landing is furnished the door shall be marked with a sign "Danger Stairway - No Landing".
- 4) First Aid - 8CAC 3400 - Must have first-aid kit available. Training in first-aid if not in near proximity of a hospital. At isolated locations, provisions for prompt medical care must be made in advance of serious injuries.
- 5) Drinking Water, Toilet Facilities - 8CAC 3363, 3364 - These items must be provided. Multiple with over 5 employees.

E. Yard Equipment -

- 1) Loaders, Trucks - 8CAC 3706, 1592 - Backup alarms are required for loaders and trucks. Roll over protection is required for loaders. The wearing of seat belts is mandatory.

General -

- 1) Lighting - 8CAC 3317, 3215(e) - Must be adequate to provide a safe place of employment.
- 2) Wash Pits, Dust Collection Pits - 8CAC 3213 - Shall be either covered or protected with guardrail.
- 3) Electrical - 8CAC 2340.17 - No exposed energized parts and all cover plates must be in place.
- 4) Automatically Controlled Equipment - 8CAC 3320 - Must be equipped with a sign declaring auto start up.

Plant Area		Deficient	Remarks
A. Asphalt Sample Area	1) Sampling height		
	2) Plumbing size		
	3) Insulation/shielding		
	4) Housekeeping		
	5) Fire protection		
	6) Underground tank access		
	7) Access stairs		
B. Aggregate/Cement Sample Area	1) Access stairs		
	2) Guardrails		
	3) Floor holes		
	4) Housekeeping		
	5) Sample size		
	6) Conveyor lockout		
	7) Dust		
	8) Sample support rails		
	9) Conveyor startup warning		
C. Aggregate Belts/Drives	1) Drive belt guards		
	2) Conveyor guards		
	3) Under conveyor clearance		
	4) Other conveyors		
D. Control Room	1) Stairs, landing, guardrail		
	2) Fire protection		
	3) Emergency exit		
	4) First aid		
	5) Drinking water, Toilet facilities		
E. Yard Equipment	1) Loaders, Trucks		
F. General	1) Lighting		
	2) Wash pits, Dust collection pits		
	3) Electrical		
	4) Auto controlled equipment		

CALIF. TEST

Form HC-14 (Rev 2-88)

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